



GRI-101-CON (520763-0000001)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

ANATOLY CHEKHMIR, ET AL.

Serial No.: 10/606,218

Art Unit: 1754

Filed: June 26, 2003

Examiner: PETER J. LISH

For: PROCESSES FOR IMMOBILIZING  
RADIOACTIVE AND  
HAZARDOUS WASTES

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record in the above-identified application the document or documents referenced on the attached Form PTO-1449. A copy of each non U.S. reference is enclosed herewith.

Cited references are mentioned in the Search Report for applicant's corresponding International patent application and are believed relevant for at least that reason. The references have already been cited in previous IDS filings, therefore, the Search report only is attached.

Further, applicants are submitting herewith:

- Check in the amount of \$180.00 to cover the required fees under 37 C.F.R. § 1.17(p) for submission of this Information Disclosure Statement;
- The Commissioner is hereby authorized to charge the amount of \$180.00 to Deposit Account 03-3975 to cover the required fees under 37 C.F.R. § 1.17(p) for

09/30/2005 MBEYENE1 00000061 033975 10606218

01 FC:1806 180.00 DA

submission of this Supplemental Information Disclosure Statement, and a copy of this authorization is attached.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account 03-3975.

It is respectfully requested that the information be expressly considered during the prosecution of this application, and that each reference be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This submission does not represent that any referenced document is material or constitutes "prior art." If it should be determined that one or more of the referenced documents constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the reference or references.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over any referenced document, should it be applied against the claims of the present application.

PILLSBURY WINTHROP SHAW PITTMAN LLP  
P.O. Box 10500  
McLean, VA 22102  
Tel: (703) 770-7900

Respectfully submitted,

ANATOLY CHEKHMIR, ET AL.

Date:

September 29, 2005

By:

Junc E. Cohan  
Registration No. 43,741

JEC/lrhj

Customer No. 28970

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/606,218
Sheet	1	of	1	Filing Date	June 26, 2003
				First Named Inventor	Anatoly Chekhmir, et al.
				Art Unit	1754
				Examiner Name	Ardith E. Hertzog
				Attorney Docket Number	GRI-101-CON

<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		BOTTINGA, et al.; The Viscosity of Magmatic Silicate Liquids: A Model for Calculation, Amererican Jounral of Science, May 1972, 272, pp. 438-475.			<input type="checkbox"/>
		U.S. Dept. of Energy, Office of Civilian Radioactive Waste Management: Waste Acceptance System Requirements Document (WSRD), Revision 4, Jan. 2002, pp. 33-34.			<input type="checkbox"/>
		Pacific Northwest National Laboratory, PNNL-13582: High-Level Waste Melter Study Report; submitted to U.S. Department of Energy July 2001, Section 3.0 and Appendix C.			<input type="checkbox"/>
		U.S. Dept. of Energy, Office of Waste Management; High-Level Waste Borosilicate Glass: A Compendium of Corrosion Characteristics, Vol. 2, March 1994, pp. 267-282.			<input type="checkbox"/>
		LUTZE, et al.; Radioactive Waste Forms for the Future; Eisevier Science Publishers B.V., 1998, Chapter 1, pp. 24-29.			<input type="checkbox"/>
		PERSIKOV, Edward S.; The Viscosity of Magmatic Liquids: Experiment, Generalized Patterns. A Model for Calculation and Prediction Applications; Advances of Physical Chemistry of Magmas (Springer-Verlag, 1991), Chapter 1, pp. 1-40.			<input type="checkbox"/>
		E.K. HANSEN, et al.; Mixing Envelope D Sludge with LAW Intermediate Products with and without Glass Formers, Westinghouse Savannah River Company, September 2001, Table B-40, p. 116, Table B-41, p. 117 and Table B-42, p. 119-120.			<input type="checkbox"/>
		G.L. SMITH et al.; Vitrification and Product Testing of C-104 and AZ-102 Pretreated Sludge Mixed with Flowsheet Quantities of Secondary Wastes, February 2001, Table 3.6, pp. 3.10-3.11, and Table 3.9, pp. 3.12-3.13.			<input type="checkbox"/>
		CHEKHMIR, et al., Diffusion in Magmatic Melts: New Study, found in Chapter 3, Physical Chemistry of Magmas, pp. 99-119.			<input type="checkbox"/>
		Epelbaum et al.; Zonality of Crystal is One More Possible Barrier to Migration of Radionuclides, Geological Problems of Radioactive Waste Burial, Contribution of Physical-Chemical Petrology. Vol. 18 (Miass, 1994), pp. 126-138. (partial translation only)			<input type="checkbox"/>
		U.S. Dept. of Energy, Office of Environmental Management; Waste Acceptance Product Specifications for Vitrified High-Level Waste Forms, WAPS, December 1996, pp. 1, 5-6, 23, 30-31.			<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

Examiner Signature	Date Considered
--------------------	-----------------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**